AMENDMENTS TO THE CLAIMS

1.-18. (Cancelled)

19. (Currently Amended) A method for creating a database comprising fingerprint[[/-]] and landmark pairs associated with media content samples, the method comprising the steps of:

extracting a plurality of characteristics from a media content sample;
transferring said plurality of characteristics to a server coupled with a database;
deriving fingerprint[[/-]] and landmark pairs from said characteristics, wherein landmarks
from said fingerprint and landmark pairs are reproducible selected points in a segment of the
content, and wherein fingerprints are values calculable from said characteristics of said content
sample at their associated landmarks; and

storing said fingerprint[[/-]] and landmark pairs in said database.

- 20. (Currently Amended) The method of claim 19 further comprising the step of: simultaneously transferring metadata used to identify said media content sample when transferring said plurality of characteristics.
- 21 (Currently Amended) The method of claim 20 further comprising the step of: associating said metadata used to identify said media content sample with said stored fingerprint[[/-]] and landmark pairs.
- 22. (Previously Presented) The method of claim 19 wherein said processing is executed by an updateable or replaceable algorithm.
- 23. (Currently Amended) The method of claim 19 further comprising the step of: prior to extracting said characteristics, determining whether or not said database already contains landmark[[/-]] and fingerprint pairs associated with said media content sample.
- 24. (Currently Amended) The method of claim 19 where said media content comprises content stored on a compact disk or digital video disk.

- 25. (Currently Amended) The method of claim 19 where said media content comprises a streaming media content.
- 26. (Currently Amended) The method of claim 19 where said media content comprises a file stored on a user's computer.
- 27. (Currently Amended) The method of claim 19 wherein said processing said characteristics into fingerprint[[/H] and landmark pairs comprises the steps of:

compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated; and

calculating one or more fingerprints at one or more said distinctive and reproducible points in time.

- 28. (Previously Presented) The method of claim 19 wherein said characteristics are a member of the group comprising:
 - a frequency value of the strongest spectral peak in proximity to a landmark, a plurality of frequency values of the strongest spectral peaks in proximity to a landmark, LPC coefficients,

Cepstral Coefficients,

- a single value that is a hashed function of multiple characteristics.
- 29. (Previously Presented) The method of claim 27 wherein said compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated comprises calculating the instantaneous power at said points in time and selecting a power maxima within those points in time.
- 30. (Previously Presented) The method of claim 27 wherein said compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated comprises calculating the absolute value of one or more spectral components at said points in time and finding the local maxima of said absolute value.

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- 31. (Previously Presented) The method of claim 19 wherein said extracting is accomplished using a data archiving service.
- 32. (Currently Amended) The method of claim 19 wherein said extracted characteristics are associated with metadata from a media content file.
 - 33. (Previously Presented) The method of claim 32 wherein said extracted characteristics are used to look up said metadata in a metadata database.
- 34. (Currently Amended) The method of claim 19 further comprising: creating an index of fingerprint[[/-]] and landmark pairs associated with said media content samples and sorting said index according to fingerprint.
- 35. (Currently Amended) An apparatus comprising a database of fingerprint[[/--]] and landmark pairs associated with media content samples, said database comprising:

a plurality of stored fingerprint[[/-]] and landmark pairs, where said fingerprint[[/-]] and landmark pairs are constructed by:

extracting a plurality of characteristics from a media content sample;
transferring said plurality of characteristics to a server coupled with a database; and
deriving fingerprint[[/-]] and landmark pairs from said characteristics, wherein landmarks
from said fingerprint and landmark pairs are reproducible selected points in a segment of the
content, and wherein fingerprints are values calculable from said characteristics of said content
sample at their associated landmarks;

36. (Currently Amended) The apparatus of claim 35 where said database further comprises:

metadata used to identify said media content sample associated with said stored fingerprint[[/-]] and landmark pairs.

37. (Previously Presented) The apparatus of claim 35 wherein said processing is executed by an updateable or replaceable algorithm.

38. (Currently Amended) The apparatus of claim 35 where said fingerprint[[/--]] and landmark pairs are further constructed by:

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prior to extracting said characteristics, determining whether or not said database already contains landmark[[/-]] and fingerprint pairs associated with said media content sample.

- 39. (Currently Amended) The apparatus of claim 35 where said media content comprises content stored on a compact disk or digital video disk.
- 40. (Currently Amended) The apparatus of claim 35 where said media content comprises a streaming media content.
- 41. (Currently Amended) The apparatus of claim 35 where said media content comprises a file stored on a user's computer.
- 42. (Currently Amended) The apparatus of claim 35 wherein said processing said characteristics into fingerprint[[/--]] and landmark pairs comprises the steps of:

compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated; and

calculating one or more fingerprints at one or more said distinctive and reproducible points in time.

- 43. (Previously Presented) The apparatus of claim 35 wherein said characteristics are a member of the group comprising:
 - a frequency value of the strongest spectral peak in proximity to a landmark,
 - a plurality of frequency values of the strongest spectral peaks in proximity to a landmark, LPC coefficients.

Cepstral Coefficients,

- a single value that is a hashed function of multiple characteristics.
- 44. (Previously Presented) The apparatus of claim 42 wherein said compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated comprises

calculating the instantaneous power at said points in time and selecting a power maxima within those points in time.

- 45. (Previously Presented) The apparatus of claim 42 wherein said compiling a list of distinctive and reproducible points in time at which fingerprints should be calculated comprises calculating the absolute value of one or more spectral components at said points in time and finding the local maxima of said absolute value.
- 46. (Previously Presented) The apparatus of claim 35 wherein said extracting is accomplished using a data archiving service.
- 47. (Currently Amended) The apparatus of claim 35 wherein said extracted characteristics are associated with metadata from a media content file.
 - 48. (Previously Presented) The apparatus of claim 47 wherein said extracted characteristics are used to look up said metadata in a metadata database.
- 49. (Currently Amended) The apparatus of claim 35 where said database further comprises:

an index of fingerprint[[/-]] and landmark pairs associated with said media content samples, said index sorted according to fingerprint.

50. (Currently Amended) A method of creating a database of fingerprint[[/]] and landmark pairs associated with an music sample comprising the steps of:

playing a music sample to be identified;

determining that the music sample is missing from said database;

extracting one or more of characteristics from the music sample, where said characteristics are common to distinctive and reproducible points in time within said music sample;

transferring said plurality of characteristics to a server coupled with a database;

deriving fingerprint[[/-]] and landmark pairs from said characteristics using an updateable or replaceable algorithm, wherein landmarks from said fingerprint and landmark pairs are

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reproducible selected points in a segment of the content, and wherein fingerprints are values calculable from said characteristics of said content sample at their associated landmarks;

storing said fingerprint[[/]] and landmark pairs in said database; and indexing said fingerprint[[/]] and landmark pairs associated with said media music samples, according to fingerprint.

51. (Currently Amended) The method of claim 50 further comprising, when fingerprint[[/-]] and landmark pairs associated with said music sample are already contained in the database;

determining whether or not said characteristics were processed with a most recent version of said updateable or replaceable algorithm;

updating said version of said updateable or replaceable algorithm, when it is determined that said characteristics were processed with an old version, and processing said characteristics with said most recent version of said algorithm.